

|   |  |  |
|---|--|--|
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b> |  | ATTORNEY'S DOCKET NUMBER<br>AAO-0273<br><div style="font-size: 1.5em; font-weight: bold; margin-top: 5px;">10/350687</div> |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP2004/005590  | INTERNATIONAL FILING DATE<br>20 April 2004 | PRIORITY DATE CLAIMED<br>21 April 2003   |
| TITLE OF INVENTION    ULTRASONIC APPARATUS AND METHOD FOR MEASURING THE CONCENTRATION AND FLOW RATE OF GAS                              |  |  |
| APPLICANT(S) FOR DO/EO/US    Naotoshi Fujimoto  |  |  |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☒ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
  - a. ☒ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: Return Receipt Postcard;

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  |                                  |   |  |                                      |                     |
|--|----------------------------------|---|--|--------------------------------------|---------------------|
| U.S. APPLICATION NO. (known, see 37 CFR 1.53) <b>107550687</b><br>New application  |                                  | INTERNATIONAL APPLICATION NO.<br>PCT/JP2004/005590                            |  | ATTORNEY'S DOCKET NUMBER<br>AAO-0273 |                     |
| The following fees have been submitted   |                                  |   |  | <b>CALCULATIONS</b>                  | <b>PTO USE ONLY</b> |
| 21. <input checked="" type="checkbox"/> Basic national fee .....\$300  |                                  |   |  | \$ 300.00                            |                     |
| 22. <input checked="" type="checkbox"/> Examination fee<br>If international preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) .....\$100<br>All other situations .....\$200  |                                  |   |  | \$ 200.00                            |                     |
| 23. <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....\$ 100<br>International Search Report prepared and provided to the Office .....\$ 400<br>All other situations .....\$ 500 |                                  |   |  | \$ 400.00                            |                     |
| <b>TOTAL OF 21, 22 and 23 =</b>  |                                  |   |  | \$ 900.00                            |                     |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |                                  |   |  |                                      |                     |
| Total Sheets<br>49 - 100 =   | Extra sheets<br>/50 =            | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE<br>x \$250.00   |                                      |                     |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).  |                                  |   |  | \$                                   |                     |
| <b>CLAIMS</b><br>Total claims  | <b>NUMBER FILED</b><br>22 - 20 = | <b>NUMBER EXTRA</b><br>2  | <b>RATE</b><br>x 50.00   | \$ 100.00                            |                     |
| Independent claims   | 4 - 3 =                          | 1   | x 200.00   | \$ 200.00                            |                     |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable)  |                                  |   |  | \$                                   |                     |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |                                  |   |  | \$ 1200.00                           |                     |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |                                  |   |  | \$                                   |                     |
| <b>SUBTOTAL =</b>  |                                  |   |  | \$ 1200.00                           |                     |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).   |                                  |   |  | \$                                   |                     |
| <b>TOTAL NATIONAL FEE =</b>  |                                  |   |  | \$ 1200.00                           |                     |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |                                  |   |  | \$                                   |                     |
| <b>TOTAL FEES ENCLOSED =</b>   |                                  |   |  | \$ 1200.00                           |                     |
|  |                                  |   |  | Amount to be refunded:               | \$                  |
|  |                                  |   |  | Amount to be charged:                | \$                  |
| a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.   |                                  |   |  |                                      |                     |
| b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>18-0013</u> in the amount of \$ <u>1200.00</u> to cover the above fees. A duplicate copy of this sheet is enclosed.   |                                  |   |  |                                      |                     |
| c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>18-0013</u> . A duplicate copy of this sheet is enclosed.  |                                  |   |  |                                      |                     |
| d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.  |                                  |   |  |                                      |                     |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</b>   |                                  |   |  |                                      |                     |
| SEND ALL CORRESPONDENCE TO:  |                                  |   |  |                                      |                     |
| RADER, FISHMAN & GRAUER PLLC<br>1233 20th Street, N.W.<br>Suite 501<br>Washington, DC 20036<br>(202) 955-3750<br>CUSTOMER NUMBER: 23353  |                                  |   | SIGNATURE: <u>Lee Cheng</u><br>NAME<br>40,949<br>REGISTRATION NUMBER |                                      |                     |